

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
210121.465APPLICATION NO.
09/164,223

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Alexander Gaiger and Martin A. Cheever

FILING DATE

September 30, 1998

GROUP ART UNIT

1643

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
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| P31 | AA | 5,350,840 | 09/27/94 | Call et al. | 536 | 23.1 | |
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| | AL | WO 91/07509 | 05/30/91 | PCT | | |
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| | AP | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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| P31 | AR | Rackley et al., "Expression of the Wilms' Tumor Suppressor Gene <i>WT1</i> during Mouse Embryogenesis," <i>Cell Growth & Differentiation</i> 4: 1023-1031, 1993. |
| ↓ | AS | Menssen et al., "Presence of Wilms' tumor gene (<i>wt1</i>) transcripts and the WT1 nuclear protein in the majority of human acute leukemias," <i>Leukemia</i> 9: 1060-1067, 1995. |
| ↓ | AT | Larsson et al., "Subnuclear Localization of WT1 in Splicing or Transcription Factor Domains Is Regulated by Alternative Splicing," <i>Cell</i> 81: 391-401, 1995. |

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| 1735 | AC | Menke et al., "Wilms' Tumor 1 splice variants have opposite effects on the tumorigenicity of adenovirus-transformed baby-rat kidney cells," <i>Oncogene</i> 12: 537-546, 1996. |
| | AD | Yamagami et al., "Growth Inhibition of Human Leukemic Cells by WT1 (Wilms Tumor Gene) Antisense Oligodeoxynucleotides: Implications for the Involvement of WT1 in Leukemogenesis," <i>Blood</i> 87(7): 2878-2884, 1996. |
| | AE | Mundlos et al., "Nuclear localization of the protein encoded by the Wilms' tumor gene <i>WT1</i> in embryonic and adult tissues," <i>Development</i> 119: 1329-1341, 1993. |
| | AF | Kudoh et al., "G ₁ phase arrest induced by Wilms tumor protein WT1 is abrogated by cyclin/CDK complexes," <i>Proc. Natl. Acad. Sci. USA</i> 92: 4517-4521, 1995. |
| | AG | Ramani and Cowell, "The Expression Pattern Of Wilms' Tumour Gene (<i>WT1</i>) Product In Normal Tissues And Paediatric Renal Tumours," <i>Journal Of Pathology</i> 179: 162-168, 1996. |
| | AH | Menssen et al., "Wilms' Tumor Gene Expression in Human CD34 Hematopoietic Progenitors During Fetal Development and Early Clonogenic Growth," <i>Blood</i> 89(9): 3486-3487, 1997 (letter). |
| | AI | Call et al., "Isolation and Characterization of a Zinc Finger Polypeptide Gene at the Human Chromosome 11 Wilms' Tumor Locus," <i>Cell</i> 60: 509-520, 1990. |
| | AJ | Telerman et al., "Identification of the cellular protein encoded by the human Wilms' tumor (<i>WT1</i>) gene," <i>Oncogene</i> 7: 2545-2548, 1992. |
| | AK | Sharma et al., "Molecular Cloning of Rat Wilms' Tumor Complementary DNA and a Study of Messenger RNA Expression in the Urogenital System and the Brain," <i>Cancer Research</i> 52: 6407-6412, 1992. |
| | AL | Wang et al., "The Wilms' Tumor Gene Product, WT1, Represses Transcription of the Platelet-derived Growth Factor A-chain Gene," <i>The Journal Of Biological Chemistry</i> 267(31): 21999-22002, 1992. |

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| AB | AC | Tadokoro et al., "Genomic Organization of the Human WT1 Gene," <i>Jpn. J. Cancer Res.</i> 83: 1198-1203, 1992. |
| | AD | Haber et al., "A dominant mutation in the Wilms tumor gene <i>WT1</i> cooperates with the viral oncogene <i>E1A</i> in transformation of primary kidney cells," <i>Proc. Natl. Acad. Sci. USA</i> 89: 6010-6014, 1992. |
| | AE | Inoue et al., " <i>WT1</i> as a New Prognostic Factor and a New Marker for the Detection of Minimal Residual Disease in Acute Leukemia," <i>Blood</i> 84: 3071-3079, 1994. |
| | AF | Tsurutani et al., "cDNA cloning and developmental expression of the porcine homologue of <i>WT1</i> ," <i>Gene</i> 211(2): 215-220, 1998. |
| | AG | Huang et al., "Tissue, Developmental, and Tumor-Specific Expression of Divergent Transcripts in Wilms Tumor," <i>Science</i> 250: 991-994, 1990. |
| | AH | Phelan et al., "Wilms' Tumor Gene, <i>WT1</i> , mRNA Is Down-regulated during Induction of Erythroid and Megakaryocytic Differentiation of K562 Cells," <i>Cell Growth & Differentiation</i> 5: 677-686, 1994. |
| | AI | Sekiya et al., "Downregulation of Wilms' Tumor Gene (<i>wt1</i>) During Myelomonocytic Differentiation in HL60 Cells," <i>Blood</i> 83(7): 1876-1882, 1994. |
| | AJ | Brieger et al., "The Expression of the Wilms' Tumor Gene in Acute Myelocytic Leukemias as Possible Marker for Leukemic Blast Cells," <i>Leukemia</i> 8(12): 2138-2143, 1994. |
| | AK | Pritchard-Jones et al., "The Wilms tumour (<i>WT1</i>) gene is mutated in a secondary leukaemia in a WAGR patient," <i>Human Molecular Genetics</i> 3(9): 1633-1637, 1994. |
| ✓ | AL | Tadokoro et al., "Intragenic homozygous deletion of the <i>WT1</i> gene in Wilms' tumor," <i>Oncogene</i> 7: 1215-1221, 1992. |

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02/08/99

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| ms | AC | Armstrong et al., "The expression of the Wilms' tumour gene, WT1, in the developing mammalian embryo," <i>Mechanisms of Development</i> 40: 85-97, 1992. |
| | AD | Wang et al., "The Wilms' Tumor Gene Product WT1 Activates or Suppresses Transcription through Separate Functional Domains," <i>The Journal Of Biological Chemistry</i> 268(13): 9172-9175, 1993. |
| | AE | Wang et al., "A second transcriptionally active DNA-binding site for the Wilms tumor gene product, WT1," <i>Proc. Natl. Acad. Sci. USA</i> 90: 8896-8900, 1993. |
| | AF | Rauscher, "The WT1 Wilms tumor gene product: a developmentally regulated transcription factor in the kidney that functions as a tumor suppressor," <i>FASEB J.</i> 7: 896-903, 1993. |
| | AG | Harrington et al., "Inhibition of Colony-stimulating Factor-1 Promoter Activity by the Product of the Wilms' Tumor Locus," <i>The Journal Of Biological Chemistry</i> 268(28): 21271-21275, 1993. |
| | AH | Tadokoro et al., "PCR Detection of 9 Polymorphisms in the WT1 Gene," <i>Human Molecular Genetics</i> 2(12): 2205-2206, 1993. |
| | AI | Tadokoro et al., "TaqI RFLPs at the Wilms' tumor gene (WT1)," <i>Nucleic Acids Research</i> 19(9): 2514, 1991. |
| | AJ | Kreidberg et al., "WT-1 Is Required for Early Kidney Development," <i>Cell</i> 74: 679-691, 1993. |
| | AK | Miyagi et al., "Expression of the Candidate Wilms' Tumor Gene, WT1, in Human Leukemia Cells," <i>Leukemia</i> 7(7): 970-977, 1993. |
| | AL | Brenner et al., "RNA polymerase chain reaction detects different levels of four alternatively spliced WT1 transcripts in Wilms' tumors," <i>Oncogene</i> 7: 1431-1433, 1992. |

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| AC | Rupprecht et al., "The Wilms' Tumor Suppressor Gene WT1 Is Negatively Autoregulated," <i>The Journal Of Biological Chemistry</i> 269(8): 6198-6206, 1994. |
| AD | Wang et al., "WT1, the Wilms' tumor suppressor gene product, represses transcription through an interactive nuclear protein," <i>Oncogene</i> 10(6): 1243-1247, 1995. |
| AE | Wu et al., "GATA-1 Transactivates the WT1 Hematopoietic Specific Enhancer," <i>The Journal Of Biological Chemistry</i> 270(11): 5944-5949, 1995. |
| AF | Brieger et al., "The Wilms' tumor gene is frequently expressed in acute myeloblastic leukemias and may provide a marker for residual blast cells detectable by PCR," <i>Annals of Oncology</i> 6: 811-816, 1995. |
| AG | Hamilton et al., "High affinity binding sites for the Wilms' tumour suppressor protein WT1," <i>Nucleic Acids Research</i> 23(2): 277-284, 1995. |
| AH | Reddy et al., "WT1-mediated Transcriptional Activation Is Inhibited by Dominant Negative Mutant Proteins," <i>The Journal Of Biological Chemistry</i> 270(18): 10878-10884, 1995. |
| AI | Nichols et al., "WT1 Induces Expression of Insulin-like Growth Factor 2 in Wilms' Tumor Cells," <i>Cancer Research</i> 55: 4540-4543, 1995. |
| AJ | Luo et al., "The tumor suppressor gene WT1 inhibits <i>ras</i> -mediated transformation," <i>Oncogene</i> 11: 743-750, 1995. |
| AK | Goodyer et al., "Repression of the retinoic acid receptor- α gene by the Wilms' tumor suppressor gene product, wt1," <i>Oncogene</i> 10: 1125-1129, 1995. |
| AL | King-Underwood et al., "Mutations in the Wilms' Tumor Gene WT1 in Leukemias," <i>Blood</i> 91: 2961-2968, 1998. |

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| VB | AC | Patmasiriwat et al., "Expression pattern of WT1 and GATA-1 in AML with chromosome 16q22 abnormalities," <i>Leukemia</i> 10: 1127-1133, 1996. |
| | AD | Inoue et al., "Long-Term Follow-Up of Minimal Residual Disease in Leukemia Patients by Monitoring WT1 (Wilms Tumor Gene) Expression Levels," <i>Blood</i> 88: 2267-2278, 1996. |
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| | AF | Algar et al., "A WT1 antisense oligonucleotide inhibits proliferation and induces apoptosis in myeloid leukaemia cell lines," <i>Oncogene</i> 12: 1005-1014, 1996. |
| | AG | Ye et al., "Regulation of WT1 by phosphorylation: inhibition of DNA binding, alteration of transcriptional activity and cellular translocation," <i>The EMBO Journal</i> 15(20): 5606-5615, 1996. |
| | AH | Adachi et al., "Midkine as a novel target gene for the Wilms' tumor suppressor gene (WT1)," <i>Oncogene</i> 13: 2197-2203, 1996. |
| | AI | Kudoh et al., "Constitutive expression of the Wilms tumor suppressor gene WT1 in F9 embryonal carcinoma cells induces apoptotic cell death in response to retinoic acid," <i>Oncogene</i> 13: 1431-1439, 1996. |
| | AJ | Svedberg et al., "Constitutive expression of the Wilms' tumor gene (WT1) in the leukemic cell line U937 blocks parts of the differentiation program," <i>Oncogene</i> 15: 1-8, 1997. |
| | AK | Bergmann et al., "High Levels of Wilms' Tumor Gene (wt1) mRNA in Acute Myeloid Leukemias Are Associated With a Worse Long-Term Outcome," <i>Blood</i> 90(3): 1217-1225, 1997. |
| | AL | Inoue et al., "Aberrant Overexpression of the Wilms Tumor Gene (WT1) in Human Leukemia," <i>Blood</i> 89(4): 1405-1412, 1997. |

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| WBS | AC | Menssen et al., "Detection By Monoclonal Antibodies Of The Wilms' Tumor (WT1) Nuclear Protein In Patients With Acute Leukemia," <i>Int. J. Cancer</i> 70: 518-523, 1997. |
| | AD | Schmid et al., "Prognostic significance of WT1 gene expression at diagnosis in adult <i>de novo</i> acute myeloid leukemia," <i>Leukemia</i> 11: 639-643, 1997. |
| | AE | Drummond et al., "Repression of the Insulin-Like Growth Factor Gene by the Wilms Tumor Suppressor WT1," <i>Science</i> 257: 674-677, 1992. |
| | AF | Harrington et al., "Inhibition of Colony-stimulating Factor-1 Promoter Activity by the Product of the Wilms' Tumor Locus," <i>The Journal Of Biological Chemistry</i> 268(28): 21271-21275, 1993. |
| | AG | Werner et al., "Inhibition of Cellular Proliferation by the Wilms' Tumor Suppressor WT1 Is Associated with Suppression of Insulin-Like Growth Factor I Receptor Gene Expression," <i>Molecular and Cellular Biology</i> 15: 3516-3522, 1995. |
| | AH | Haber et al., "An Internal Deletion within an 11p13 Zinc Finger Gene Contributes to the Development of Wilms' Tumor," <i>Cell</i> 61: 1257-1269, 1990. |
| | AI | Haber et al., "Alternative splicing and genomic structure of the Wilms tumor gene <i>WT1</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 88: 9618-9622, 1991. |
| | AJ | Madden et al., "Transcriptional Repression Mediated by the WT1 Wilms Tumor Gene Product," <i>Science</i> 253: 1550-1552, 1991. |
| | AK | Rauscher et al., "Binding of the Wilms' Tumor Locus Zinc Finger Protein to the EGR-1 Consensus Sequence," <i>Science</i> 250: 1259-1262, 1990. |
| | AL | Nakagama et al., "Sequence and Structural Requirements for High-Affinity DNA Binding by the WT1 Gene Product," <i>Molecular and Cellular Biology</i> 15(3): 1489-1498, 1995. |

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| BS | AC | Pritchard-Jones et al., "The candidate Wilms' tumour gene is involved in genitourinary development," <i>Nature</i> 346: 194-197, 1990. |
| | AD | Morris et al., "Characterization of the zinc finger protein encoded by the WT1 Wilms' tumor locus," <i>Oncogene</i> 6: 2339-2348, 1991. |
| | AE | Pelletier et al., "Germline Mutations in the Wilms' Tumor Suppressor Gene Are Associated with Abnormal Urogenital Development in Denys-Drash Syndrome," <i>Cell</i> 67: 437-447, 1991. |
| | AF | Buckler et al., "Isolation, Characterization, and Expression of the Murine Wilms' Tumor Gene (WT1) During Kidney Development," <i>Molecular and Cellular Biology</i> 11: 1707-1712, 1991. |
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| | AH | Miwa et al., "Expression of the Wilms' Tumor Gene (WT1) in Human Leukemias," <i>Leukemia</i> 6(5): 405-409, 1992. |
| | AI | Ogawa et al., "Successful donor leukocyte transfusion at molecular relapse for a patient with acute myeloid leukemia who was treated with allogeneic bone marrow transplantation: importance of the monitoring of minimal residual disease by WT1 assay," <i>Bone Marrow Transplantation</i> 21: 525-527, 1998. |
| | AJ | Inoue et al., "Wilms' Tumor Gene (WT1) Competes With Differentiation-Inducing Signal in Hematopoietic Progenitor Cells," <i>Blood</i> 91(8): 2969-2976, 1998. |
| | AK | King-Underwood and Pritchard-Jones, "Wilms' Tumor (WT1) Gene Mutations Occur Mainly in Acute Myeloid Leukemia and May Confer Drug Resistance," <i>Blood</i> 91(8): 2961-2968, 1998. |
| J | AL | Maurer et al., "The Wilms' tumor gene is expressed in a subset of CD34 progenitors and downregulated early in the course of differentiation in vitro," <i>Experimental Hematology</i> 25: 945-950, 1997. |

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| AC | Charles et al., "Expression of the Wilms' tumour gene WT1 in the developing human and in paediatric renal tumours: an immunohistochemical study," <i>J. Clin. Pathol.: Mol. Pathol.</i> 50: 138-144, 1997. |
| AD | Silberstein et al., "Altered expression of the WT1 Wilms tumor suppressor gene in human breast cancer," <i>Proc. Natl. Acad. Sci. USA</i> 94: 8132-8137, 1997. |
| AE | Charles et al., "Immunohistochemical detection of the Wilms' tumour gene WT1 in desmoplastic small round cell tumour," <i>Histopathology</i> 30: 312-314, 1997. |
| AF | Carapeti et al., "Dominant-negative mutations of the Wilms' tumour predisposing gene (WT1) are infrequent in CML blast crisis and de novo acute leukaemia," <i>Eur. J. Haematol.</i> 58: 346-349, 1997. |
| AG | Murata et al., "The Wilms tumor suppressor gene WT1 induces G1 arrest and apoptosis in myeloblastic leukemia M1 cells," <i>FEBS Letters</i> 409: 41-45, 1997. |
| AH | Bergmann et al., "Wilms Tumor Gene Expression in Acute Myeloid Leukemias," <i>Leukemia and Lymphoma</i> 25: 435-443, 1997. |
| AI | Osaka et al., "WT1 Contributes To Leukemogenesis: Expression Patterns In 7,12-Dimethylbenz[a]Anthracene (DMBA)-Induced Leukemia," <i>International Journal of Cancer</i> 72: 696-699, 1997. |
| AJ | Parker et al., "Scheme for Ranking Potential HLA-A2 Binding Peptides Based on Independent Binding of Individual Peptide Side-Chains," <i>Journal of Immunology</i> 152: 163-175, 1994. |
| AK | Feller and de la Cruz, "Tsites (Version 1.1) A computer program to determine T cell epitopes using four predictive algorithms," <i>Nature</i> 349: 720-721, 1991. |
| AL | Pogue et al., "Amino-terminal alteration of the HLA-A*0201-restricted human immunodeficiency virus pol peptide increases complex stability and <i>in vitro</i> immunogenicity," <i>Proc. Natl. Acad. Sci. USA</i> 92: 8166-8170, 1995. |

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* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).